

CoreModule[®] 740

Atom™ PC/104-Plus Single Board Computer
with ICH8-M Chipset



Features

- Intel® Atom™ N450 1.66GHz Processor
- Onboard single channel DDR2 SDRAM
- PC/104-Plus Expansion
- Integrated graphics DirectX 9 controller at 200MHz
- Single Channel 18-bit LVDS and Analog VGA



Choose Ampro by ADLINK™ CoreModule™ 740 for...

Low power performance Atom™ platform targeting Extreme Rugged™ and space-constrained applications.

Description

Ampro by ADLINK™ CoreModule[®] 740 SBC uses an Intel® Luna Pier platform with 1.66GHz Atom™ N450 Pineview-M processor and ICH8M I/O Control Hub. It includes USB 2.0, Single channel IDE, LPC, Floppy, Parallel, Serial ports, LPT, Stack-through connectors and integrated graphics in a compact ISM form factor SBC.

Specifications

Core System

CPU - 1.66GHz Intel® Atom™ N450 Processor
Cache - 512KB L2 Cache
Memory - On board 512MB soldered DDR2 RAM for rugged applications
Chipset - Intel® ICH8-M I/O Control Hub
FSB - 1066MHz
BIOS - AMI with CMOS backup in 16 Mbit SPI Flash
Hardware Monitor - DC voltages, CPU temperature

Bus Interface

PC/104-Plus, IDE, LPC, Parallel

I/O

USB - 2 USB 2.0 Ports
Floppy
Serial - 2 RS232
2 x GPIO
Keyboard/Mouse - PS/2 interface

Network Interface

Ethernet not supported*

*Note: contact us for Ethernet function support

Video Interface

Integrated DirectX 9 graphics controller in Intel® Atom™ Pineview-M N450 processor
Single Channel 18-bit LVDS / Analog VGA

Software & Development Tools

OS Support - Linux / Windows® CE 6.0 / XPe / VxWork 6.7 / QNX 6.4**
BIOS - AMI with ACPI 2.0

Power Specifications

Input Power - AT mode (5V DC +/- 5%)
Power States - Supports S0, S5

Mechanical

Size - 90x96mm (3.6x3.8"), PC/104-Plus form factor
Board Thickness - .093" (2.36mm thick)
Temperature
• Standard: -20°C to +70°C
• Extended: -40°C to +85°C
• Storage: -55°C to +85°C
Humidity - 90% at 60°C
Shock
Non-operation: 50G peak-to-peak, 11ms duration, MIL-STD-202G Method 213B
Vibration
Operation: 11.95 Grms, 50-2000 Hz, each axis, MIL-STD-202G Method 214A

Ordering Information

Model Number	Description/Configuration
CM-740-R-16	CoreModule™ 740, Intel® Atom™ N450, 1.6GHz, PC/104-Plus, 512MB soldered DDR2 RAM
CM-740-L-16	Quick Start Kit (CoreModule™ 740, 1.6 GHz, 512MB soldered DDR2 RAM, cable kit, software, documentation)